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Substitute for form				Complete if Known		
INFORM	I NOITAI	DISCLOS	URE	Application Number	10/773,559	
STATEM	IENT RV	APPLICA	ANT	Filing Date	February 6, 2004	
SIAILI	ICIAI DI	AFFEIO	~! <b>7</b> !	First Named Inventor	Hiromichi Kobayashi	
(use a	s many sheets as ne	cessary)		Group Art Unit	2852	
• • • •	-	••		Examiner Name	Not Yet Assigned	
Sheet	1	of	1	Attorney Docket Number	1217-040223	

U.S. PATENT DOCUMENTS								
Examiner Initials*	Cite No.	U.S. Patent Do		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant		
			nd Code <sup>2</sup>		MM-DD-YYYY	Passages or Relevant Figures Appear		
HL		4,598,034	B1	Honjo et al.	07-01-1986			
HL		5,466,552	B1	Sato et al.	11-14-1995			
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			OREIGN	N PATENT DOC	UMENTS		
Examiner Cite Initials No.		Foreign Patent Docu	Kind	Name of Patentee or Applicant of Cited	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Ι.
	L	Office <sup>3</sup> Number <sup>4</sup>	Code <sup>5</sup>	Document		or Relevant Figures Appear	T
HL		JP(1984) 59-48774	A.	Toshio et al.	Mar. 21, 1984	U.S. equivalent 4598034	Γ
HL	_	JP(1996) 8-69131	A.	Kenji et al.	Mar. 12, 1996	English-language Abstract	Τ
HL	l	JP(1994) 6-51563	Α	Yoshinobu et al.	Feb. 25, 1994	English-language Abstract	Π
HL		JP(1994) 6-35231	Α	Yoshinobu et al.	Feb. 10, 1994	English-language Abstract	
HL		JP(1995) 7-181744	Α	Masayuki et al.	July 21, 1995	English-language Abstract	T
HL		JP(1993) 5-197214	A.	Masahiro et al.	Aug. 6, 1993	English-language Abstract	
HL		JP(1996) 8-194338	Α	Masahiro et al.	July 30, 1996	English-language Abstract	Τ.
HL		JP(2001) 3168377	Α	Kenji et al.	Jan. 12, 1996	English-language Abstract	T
HL		JP(1995) 7-333910	Α	Yuji et al.	Oct. 5, 2001	U.S. equivalent 5466552	Τ
HL		JP(2001) 8022150	Α	Hiromichi et al.	Oct. 19, 2001	English-language Abstract	1
HL		JP(1985) 60-0458	Α	Mitsuhiro et al.	Jan. 5, 1985	English-language Abstract	T
HL		JP(1995) 7098521	Α,	Kenji et al.	Apr. 11, 1995	English-language Abstract	Τ

Examiner	/Hoa Le/ (01/15/2007)	Date	
Signature	/Hoa Le/ (01/15/2007)	Considered	01/15/2007

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form 1449A/PTO				Complete if Known		
		21221 22	upe	Application Number	10/773,559	
INFORMATION DISCLOSURE				Filing Date	Feb. 6, 2004	
STATEN	MENT BY		ANT	First Named Inventor	Hiromichi KOBAYASHI	
(lise	as many sheets a	s necessary)	•	Art Unit	1756	
				Examiner Name	Janis L. Dote	
Sheet	1	of	2	Attorney Docket Number	1217-040223	

	U.S. PATENT DOCUMENTS									
Examiner Cite Initials* No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant						
		Number - Kind Code <sup>2 (if known)</sup>			Figures Appear					
HL		US- 5,061,586 B1	10-29-1991	Saha et al.						
HL		US- 5,876,893 B1	03-02-1999	Ochiai et al.	<u> </u>					
HL		US- 6,090,517 B1	07-18-2000	Tamura et al.						
HL		US- 5,994,019 B1	11-30-1999	Okado et al.						
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			FOREIC	N PATENT I	OCUMENTS		
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Docu-		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T4
HL		JP(1993) 5-505891	Α	08-26-1993	Saha et al.	U.S. 5,061,586 equiv.	
HL		JP(1997) 9-236947	A	09-09-1997	Hitachi Metals Ltd.	U.S. 5,876,893 equiv.	
HL		JP(1996) 08-202084	Α	08-09-1996	Konica Corp.	U.S. 6,090,517 equiv.	
HL		JP(1998) 10-039548	Α	02-13-1998	Hitachi Metals Ltd.	U.S. 5,876,893 equiv.	
HL .		JP(1999) 11-190916	Α	07-13-1999	Canon Inc.	U.S. 5,994,019 equiv.	
HL		JP(2000) 2000-267360	Α	09-29-2000	Toray Ind. Inc.	English Abstract attached	
HL		JP(1984) 59-228664	Α	12-22-1984	TDK Corp.	English Abstract attached	
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Examiner	( / / / - / / )	Date	01/35/0005
Signature	/Hoa Le/ (01/15/2007)	Considered	01/15/2007

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Substitute for fo	Substitute for form 1449B/PTO			Complete if Known		
				Application Number	10/773,559	
INFOR	<b>EMATION</b>	N DISCLO	SURE	Filing Date	Feb. 6, 2004	
STATI	EMENT B	Y APPLI	CANT	First Named Inventor	Hiromichi KOBAYASHI	
				Art Unit	1756	
	(Use as many sheets as necessary)			Examiner Name	Janis L. Dote	
Sheet	2	of	2	Attorney Docket Number	1217-040223	

	NON PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²						
HL		Metal Data Book, 3 <sup>rd</sup> ed., Oct. 10, 2000, page 13, pub. Maruzen Co., Ltd.							
HL		Chemical Data Book 3, Sep. 30, 1960, 1st ed., select pages, pub. Kyoritsu Shuppan Co., Ltd.							
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INFOR		NCOL 00	upr	Application Number	10/773,559	
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STATE	MENT BY	APPLIC	ANT	First Named Inventor	Hiromichi KOBAYASHI	
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				Examiner Name	Janis L. Dote	
Sheet	1	of	1	Attorney Docket Number	1217-040223	

	U.S. PATENT DOCUMENTS										
Examiner Cite Initials* No.	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant						
		Number - Kind Code <sup>2 (if known)</sup>	<u></u> .		Passages or Relevant Figures Appear						
HL		US- 5,976,747 B1	11-02-1999	Sato et al.							
HI.		US- 6,372,400 B1	04-16-2002	Yoshizaki et al.							
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FOREIGN PATENT DOCUMENTS										
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document  Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>3</sup> (if known)			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵		
HL		EP	0 928 998	A1	07-14-1999	Sato et al.	U.S. equivalent '747			
HL		EΡ	1 065 571	A2	01-03-2001	Yoshizaki et al.	U.S. equivalent '400			
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Examiner Signature	/Hoa Le/ (01/15/2007)	Date Considered	01/15/2007
Signature	l .	Considered	1 01/13/2007

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